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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/909,988	07/23/2001	Shigeru Tanaka	Q64671	1372
75	590 07/11/2002			
SUGHRUE MION ZINN MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, NW Washington, DC 20037-3213			EXAMINER	
			PRONE, JASON D	
washington, DC 20037-3213				
			ART UNIT	PAPER NUMBER
			3724	
			DATE MAILED: 07/11/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		09/909,988	TANAKA ET AL.		
٠.	Office Action Summary	Examiner	Art Unit		
		Jason Prone	3724		
Peri d fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address		
THE N - Exter after: - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).		
3tatus 1)⊠	Responsive to communication(s) filed on 22 M	1av 2002			
2a)□	· · · · · · · · · · · · · · · · · · ·	s action is non-final.			
3)□	,		osecution as to the merits is		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
· ·	4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.				
4a) Of the above claim(s) <u>13-21</u> is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.				
6)⊠	Claim(s) 1-12 is/are rejected.				
7)	Claim(s) is/are`objected to.				
8)[Claim(s) are subject to restriction and/or	election requirement.			
Applicati	on Papers				
9)[]]	The specification is objected to by the Examiner				
10) \boxtimes The drawing(s) filed on <u>23 July 2001</u> is/are: a) \square accepted or b) \boxtimes objected to by the Examiner.					
_	Applicant may not request that any objection to the				
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:					
	1. ☐ Certified copies of the priority documents have been received.				
	2. Certified copies of the priority documents have been received in Application No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 					
Attachment(s)					
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) Patent Application (PTO-152)		

Application/Control Number: 09/909,988

Art Unit: 3724

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of claims 13-21 in Paper No. 7 is acknowledged.

Drawings

- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: In Figure 1, item "47". In Figure 2, item "59". In Figure 3, items "59" and "61". In Figure 5, item "S204". A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: On page 8 line 23, item "61A". On page 9 line 3, item "(θ)". A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 09/909,988 Page 3

Art Unit: 3724

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1 and 6-7 rejected under 35 U.S.C. 102(b) as being anticipated by Watanabe et al.

Watanabe et al. discloses the same invention including an apparatus of estimating a lifetime of a cutter (Abstract), a detector for detecting a value of a parameter (Column 7 lines 28-30), a comparator (62), an output element (Column 7 lines 21-28), that the comparator determines if the cutter is unfit for use (Column 7 lines 28-30), and that the comparator is in a microcomputer (Fig. 6).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Olaims 2-5 and 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe et al. in view of Iwasaki. Watanabe et al. discloses the invention including a motor driving the cutter (8) {rest listed above} but fails to disclose that the parameters detected are a value of current loaded in the motor and/or the time required to complete the task, and that ammeter and timer element are used to measure the respective parameters. Iwasaki teaches the use of detecting the value of current loaded in the motor parameter and the time required to complete the task parameter (Column 1 lines 19-27). Examiner notes that current is measured in amps and a ammeter is used

Application/Control Number: 09/909,988

Art Unit: 3724

to measure amps therefore it is inherent that an ammeter would be present. Also, it is inherent that a timekeeper be used to measure the time parameter. Therefore, it would have been obvious to one skilled in the art, at the time of the invention, to have provided Watanabe et al. with a current load and time detector for an alternate method of detecting wear.

8. Claims 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe et al. The Examiner take official notice in that the output element comprises of a visual display is old and well known in the art.

In light of Watanabe et al. and Iwasaki, the method is inherent.

Conclusion

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Smith, Lipcon et al., Maxey et al., Matossian et al., Mattinger et al. ('166), Mattinger et al. ('831), Klosterman, and Tanaka et al.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Prone whose telephone number is 703-605-4287. The examiner can normally be reached on 7:30-5:00, Mon (every other) Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Allen N. Shoap can be reached on 703-308-1082. In lieu of mailing, it is encouraged that all formal responses be faxed to 703-872-9302.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

Application/Control Number: 09/909,988

Art Unit: 3724

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JP June 28, 2002

> M. Rachuba Primary Examiner